

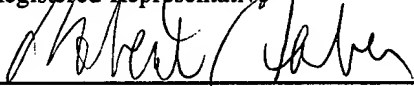
## REMARKS/ARGUMENT

The original claims have been replaced with claims in better form for U.S. practice. The original claims have not been narrowed by this Amendment, but rather have been restated in U.S. form.

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Asst. Commissioner for Patents, Washington, D.C. 20231, on October 24, 2001:

Robert C. Faber

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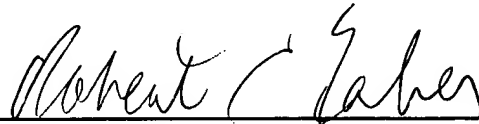


Signature

October 24, 2001

Date of Signature

Respectfully submitted,



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**APPENDIX A**  
**"CLEAN" VERSION OF EACH PARAGRAPH/SECTION/CLAIM**  
**37 C.F.R. § 1.121(b)(ii) AND (c)(i)**

**CLAIMS (with indication of amended or new):**

**New** 13. A method of assembling a drum wherein the drum is comprised of arcuate segments which are joined together to form part of an axle thread brush roller,

the method comprising providing a plurality of axially extending, arcuate shaped segments which, when the segments are assembled together, define a cylindrical drum shape, wherein each segment has opposite first and second segment ends with respect to a rotation direction of the drum

a first shoulder projecting from the first segment end and a second shoulder projecting from the second segment end; each shoulder having a respective outward shoulder end with respect to the rotation direction of the drum;

arranging the segments so that the outward shoulder end of each shoulder at each end of a respective segment engages the segment end of the adjacent segment for bringing the segments into alignment around the drum, and so that adjacent first and second shoulders of adjacent segments may receive an attachment element for attaching the adjacent first and second shoulders;

15 passing a through-hole in a direction into the drum and through the first and 16 second shoulders between the adjacent segments; and inserting attachment element through the formed holes at the shoulders of the adjacent segments for attaching the adjacent segments.

**New** 14. The method of claim 13, further comprising forming the through-hole in at least one of the shoulders at the attachment between the shoulders of adjacent segments so that the hole has a threading for receiving a threaded attachment element; and the attachment element being threaded for fitting into the threaded hole formed.

**New** 15. The method of claim 13, wherein the shoulders extend axially along the drum; the method further comprising forming a plurality of the through-holes through the

shoulders and the plurality being arranged along the axial direction of the drum and passing through the first and second shoulders of adjacent segments.

**New** 16. The method of claim 13, wherein the drum has opposite axial ends; the method further comprising applying a plate with a respective shaft end projecting outwardly therefrom at each opposite axial end of the drum.

**New** 17. The method of claim 13, wherein the respective first shoulder at the first end of each segment is located radially more inwardly than the respective second shoulder at the opposite end of the segment; each first shoulder having a radially outward surface and each second shoulder having a radially inward surface;

*Cancelled*  
the method further comprising the arranging of the segments comprising applying a radially outward surface of a first shoulder of one segment under a radially inward surface of a second shoulder of the adjacent segment for bringing the segments into contact, and forming the through-hole through the shoulders and through the radially outward and radially inward surfaces of the first and second shoulders.

**New** 18. The method of claim 13, wherein providing the segments comprises forming a plurality of the segments with the respective first and second shoulders at the opposite ends thereof wherein the segments are so-shaped and curved and of such number that the segments may be assembled to define a cylindrical drum.

**New** 19. A drum for a brush roller, wherein the drum is comprised of a plurality of segments, each segment having opposite first and second ends with respect to a rotation direction of the drum, the first end of each segment cooperating with the second end of the adjacent segment and the adjacent segments are joined to form a drum;

each segment having an upper side which is outwardly facing when the segments are joined;

a plurality of outwardly protruding beams on the upper outwardly facing side, the beams being shaped and placed to define a respective U-shaped channel between adjacent beams on the segment;

each segment having a double wall, with an inward wall toward an inner side of the segment, an outward wall toward the upper side of the segment, and the inward and outward walls being sufficiently rigid for the assembled segments to form a fully self-supporting drum when the segments are joined at the respective cooperating first and second ends of adjacent segments;

a torque transmitter connected to the drum for rotating the drum about an axis.

*B1*  
*Center*  
**New** 20. The drum of claim 19, wherein there are four outwardly protruding beams on each of the segments.

**New** 21. The drum of claim 19, further comprising reinforcing spacers between the double walls of the segments.

**New** 22. The drum of claim 19, wherein the segments are shaped so that at least two of the segments are congruent.

**New** 23. The drum of claim 19, wherein the upper side of each of the segments defines an outer arcuate shape, and the segments are of such circumferential length and are of such number that when the segments are joined with the first side of one segment adjacent the second side of the adjacent segment, the drum has a cylindrical drum shape.

**New** 24. The drum of claim 23, wherein each segment has a respective first shoulder projecting outwardly from the first end and has a respective second shoulder projecting outwardly from the second end, with the first and second shoulders being respectively so placed on the ends of the segments that the first shoulder has an upper outwardly facing first surface and the second shoulder has a lower inwardly facing second surface.

New 25. The drum of claim 24, wherein the outwardly facing first surface of the first shoulder of one segment has resting on it the inwardly facing second surface of the second shoulder of the adjacent segment.

New 26. The drum of claim 25, wherein the first and second surfaces are flat and oriented parallel.

New 27. The drum of claim 25, wherein the shoulders have respective outer edges and each of the outer edges of the shoulders rests against the adjacent segment.

B1  
Contd.  
New 28. The drum of claim 26, further comprising fastening elements between the first and second shoulders at adjacent segments for joining the adjacent segments.

New 29. The drum of claim 19, wherein each segment has a respective first shoulder projecting outwardly from the first end and has a respective second shoulder projecting outwardly from the second end, with the first and second shoulders being respectively so placed on the ends of the segments that the first shoulder has an upper outwardly facing first surface and the second shoulder has a lower inwardly facing second surface.

New 30. The drum of claim 29, wherein the outwardly facing first surface of the first shoulder of one segment has resting on it the inwardly facing second surface of the second shoulder of the adjacent segment.

New 31. The drum of claim 19, wherein each of the segments is an extruded aluminum section including the respective shoulders at the opposite first and second ends.

New 32. The drum of claim 19, wherein there are an even number of segments.

New 33. The drum of claim 24, wherein there are a plurality of the segments, the segments are extruded, are of arcuate shape and are of identical length.

*B1  
Cont'd.*  
New 34. An axle for a brush roller, comprising  
a drum according to claim 24, the drum having opposite axial ends;  
a respective torque transmitting plate arranged concentrically in relation to and  
connected to each of the axial ends of the drum; and  
a respective shaft and projecting from each of the torque transmitting plates.

